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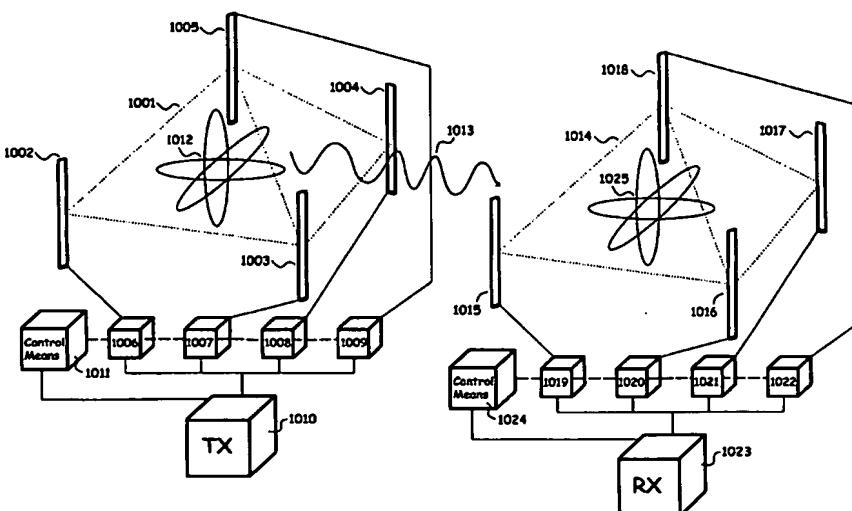
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(54) Title: A SYSTEM & METHOD FOR DETERMINING ATTITUDE USING SPATIAL SHIFT KEY (SSK) MODULATION SIGNATURES



(57) Abstract: An attitude system that includes a radiating means which moves predeterminedly through three-dimensional space, such that a cyclic Doppler is superimposed upon a transmitted signal; receiving this transmitted signal through a receiving means which moves predeterminedly through three-dimensional space, such that a cyclic Doppler is superimposed upon the received signal; analyzing the movement of the receive means in relation to the radiating means by interpreting the received cyclic Doppler; and determining attitude based on the interpreted Doppler. Or alternatively, adjusting the movement of the receive means in three-dimensional space so the superimposed cyclic Doppler is minimized on the received signal and; determining attitude based on the adjustment required to bring the receive means and radiating means into an alignment.

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